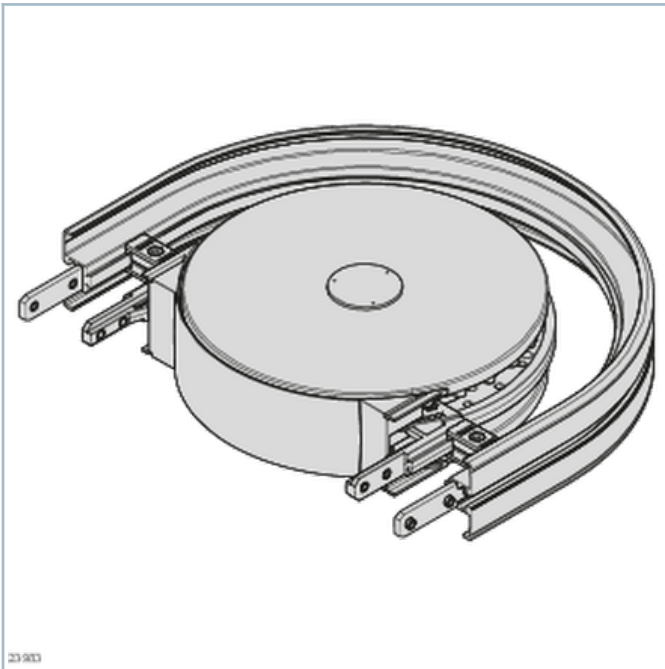
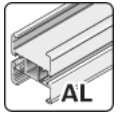


Curve wheel AL



- Ball bearing made of non-rusting steel (1.4301), with seal on both sides and FDA-compliant grease filling

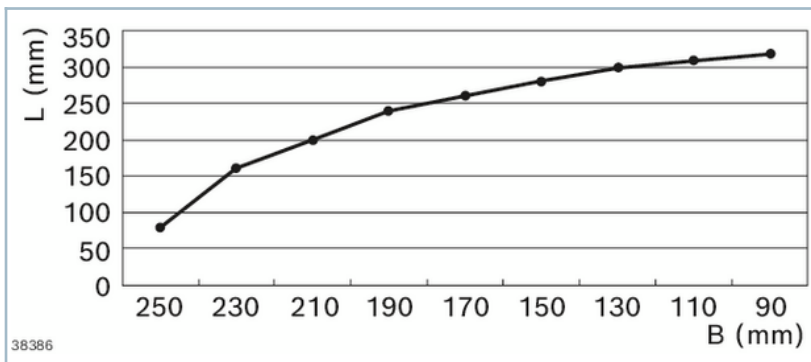
- Extension of the curve wheel to a curve wheel drive or alpine conveyor
- Longer service life and reduced downtimes thanks to low-friction curve technology
- Surfaces in contact with chain made of FDA-compliant material
- No interfering contours above chain plate height
- Can be used horizontally and vertically (for wedge conveyors)

Product description

The curve wheel is used for the horizontal change in direction of the chain. It enables low-friction direction changes with very small radii.

- Size: 65, 90, 120
- Deflection angles
- Suitable chain types: all
- For circuit systems without chain return in bottom run (using a curve wheel or connection drive), the appropriate cover must be used for personal safety reasons

Technical data



L = product length in conveying direction

B = product width

	Material
Curve wheel AL VFplus 65 30°	Housing: Diecast aluminum Chain wheel: PA; white Ball bearing: Non-rusting steel 1.4301/FDA
Curve wheel AL VFplus 65 45°	
Curve wheel AL VFplus 65 90°	
Curve wheel AL VFplus 65 180°	
Curve wheel AL VFplus 90 30°	
Curve wheel AL VFplus 90 45°	
Curve wheel AL VFplus 90 90°	

	Material
Curve wheel AL VFplus 90 180°	Housing: Diecast aluminum Chain wheel: PA; white Ball bearing: Non-rusting steel 1.4301/FDA
Curve wheel AL VFplus 120 30°	
Curve wheel AL VFplus 120 45°	
Curve wheel AL VFplus 120 90°	
Curve wheel AL VFplus 120 180°	

Combination matrix

		Straight			Curves				Drives	
		Section profile AL open	Section profile AL closed	Assembly module	Curve wheel	Roller curve*	Horizontal sliding curve	Vertical curve	Head drive	Curve wheel drive
Straight	Section profile AL open	J								
	Section profile AL closed	J	J							
	Assembly module	J	J	N						
Curves	Curve wheel	J	J	L ⁽²⁾	L ⁽²⁾					
	Roller curve*	J	N	J	N	L ⁽¹⁾				
	Horizontal sliding curve	J	J	J	J	N	L ⁽¹⁾			
	Vertical curve	J	J	J	J	L ⁽¹⁾	L ⁽¹⁾	L ⁽¹⁾		
Drives	Head drive	J	J	L ⁽²⁾	L ⁽²⁾	L ^(1, 4)	L ⁽¹⁾	L ^(1, 4)	N	
	Curve wheel drive	J	J	L ⁽²⁾	L ⁽²⁾	N	L ⁽¹⁾	L ⁽¹⁾	N	N
	Connection drive	J	J	L ⁽²⁾	L ⁽²⁾	N	L ⁽¹⁾	L ⁽¹⁾	N	N

		Straight			Curves				Drives	
		Section profile AL open	Section profile AL closed	Assembly module	Curve wheel	Roller curve*	Horizontal sliding curve	Vertical curve	Head drive	Curve wheel drive
Drives	Center drive (STS)**	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	N	L ^(1, 5)	L ^(1, 5)	N	N
Return Unit	Basic unit	J	J	L ⁽²⁾	L ⁽²⁾	L ^(1, 4)	L ⁽¹⁾	L ^(1, 4)	L ⁽²⁾	N
	90° (STS)**	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	N	L ^(1, 5)	L ^(1, 5)	N	N
	Transmission kit	N	N	N	N	N	N	N	J	N

J possible without restrictions * Support profile must project 76+2 mm into the roller curve.

L possible with restrictions ** AL-STs adapter included in the scope of delivery.

N not possible

Drives		Return Unit		
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Connection drive

Center drive (STS)**

Basic unit

90° (STS)**

Transmission kit

Drives		Return Unit		
Connection drive	Center drive (STS)**	Basic unit	90° (STS)**	Transmission kit
N				
N	N			
N	L ^{2,3)}	L ^{2,3)}		
L ^{2,5)}	N	N	L ²⁾	
J	N	J	N	N

* Support profile must project 76+2 mm into the roller curve.

** AL-STS adapter included in the scope of delivery.

- 1) Profile connector not required
- 2) Use of a profile piece ($L_{\min} = 120 \text{ mm}$)
- 3) Assembly module required
- 4) For sizes 160-320: shorten the support rail on the dotted line
- 5) Use of the AL-STS adapter

Actual chain and sliding rail lengths of the components

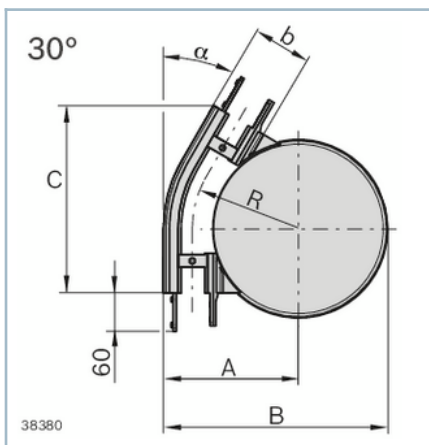
		Actual chain length	Effective sliding rail length
		m	m
Curve wheel AL VFplus 65 30°	3842547048	2x 0,28	2x 0,34
Curve wheel AL VFplus 65 45°	3842547049	2x 0,32	2x 0,38
Curve wheel AL VFplus 65 90°	3842547050	2x 0,44	2x 0,53
Curve wheel AL VFplus 65 180°	3842547051	2x 0,68	2x 0,82
Curve wheel AL VFplus 90 30°	3842547052	2x 0,28	2x 0,35
Curve wheel AL VFplus 90 45°	3842547053	2x 0,33	2x 0,41
Curve wheel AL VFplus 90 90°	3842547054	2x 0,46	2x 0,58
Curve wheel AL VFplus 90 180°	3842547055	2x 0,72	2x 0,91
Curve wheel AL VFplus 120 30°	3842547056	2x 0,29	2x 0,38
Curve wheel AL VFplus 120 45°	3842547057	2x 0,34	2x 0,44
Curve wheel AL VFplus 120 90°	3842547058	2x 0,48	2x 0,63
Curve wheel AL VFplus 120 180°	3842547059	2x 0,77	2x 1,01

Dimensions

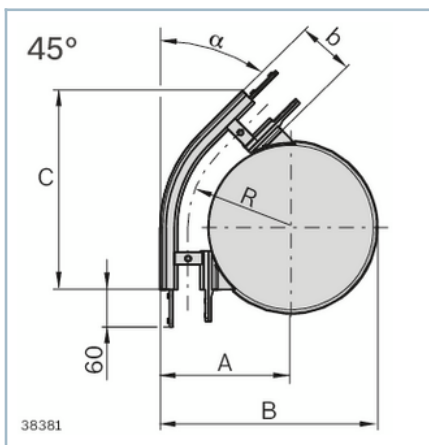
Deflection angles and radii

b	α	A	B	C	R
mm	°	mm	mm	mm	mm
65	30	185.5	324.5	279.4	153
	45	185.5	324.5	301.9	153
	90	185.5	324.5	285.5	153
	180	185.5		287.5	153
90	30	210.5	349.5	291.9	165.5
	45	210.5	349.5	319.6	165.5
	90	210.5	349.5	310.5	165.5
	180	210.5		312.5	165.5
120	30	240.5	379.5	306.9	180.5
	45	240.5	379.5	340.8	180.5
	90	240.5	379.5	340.5	180.5
	180	240.5		342.5	180.5

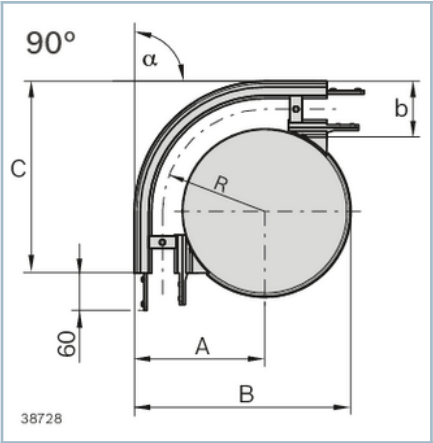
Curve wheel AL VFplus 30°



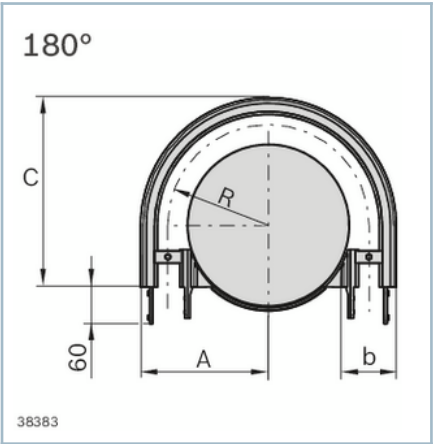
Curve wheel AL VFplus 45°



Curve wheel AL VFplus 90°



Curve wheel AL VFplus 180°



Information

Note: High-pressure cleaning of the ball bearings is not permitted.

Delivery notes

Condition of Delivery

Curve wheel AL VFplus 65 30°	Fully assembled
Curve wheel AL VFplus 65 45°	
Curve wheel AL VFplus 65 90°	
Curve wheel AL VFplus 65 180°	
Curve wheel AL VFplus 90 30°	
Curve wheel AL VFplus 90 45°	
Curve wheel AL VFplus 90 90°	
Curve wheel AL VFplus 90 180°	
Curve wheel AL VFplus 120 30°	
Curve wheel AL VFplus 120 45°	
Curve wheel AL VFplus 120 90°	

Curve wheel AL VFplus 120 180°	Fully assembled
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Scope of delivery

Curve wheel AL VFplus 65 30°	Incl. fastening material for mounting to the AL section profile
Curve wheel AL VFplus 65 45°	
Curve wheel AL VFplus 65 90°	
Curve wheel AL VFplus 65 180°	
Curve wheel AL VFplus 90 30°	
Curve wheel AL VFplus 90 45°	
Curve wheel AL VFplus 90 90°	
Curve wheel AL VFplus 90 180°	
Curve wheel AL VFplus 120 30°	
Curve wheel AL VFplus 120 45°	
Curve wheel AL VFplus 120 90°	
Curve wheel AL VFplus 120 180°	

Ordering codes

	α	R	No.
	°	mm	
Curve wheel AL VFplus 65 30°	30	153	3842547048
Curve wheel AL VFplus 65 45°	45	153	3842547049
Curve wheel AL VFplus 65 90°	90	153	3842547050
Curve wheel AL VFplus 65 180°	180	153	3842547051
Curve wheel AL VFplus 90 30°	30	165.5	3842547052
Curve wheel AL VFplus 90 45°	45	165.5	3842547053
Curve wheel AL VFplus 90 90°	90	165.5	3842547054
Curve wheel AL VFplus 90 180°	180	165.5	3842547055
Curve wheel AL VFplus 120 30°	30	180.5	3842547056
Curve wheel AL VFplus 120 45°	45	180.5	3842547057
Curve wheel AL VFplus 120 90°	90	180.5	3842547058
Curve wheel AL VFplus 120 180°	180	180.5	3842547059